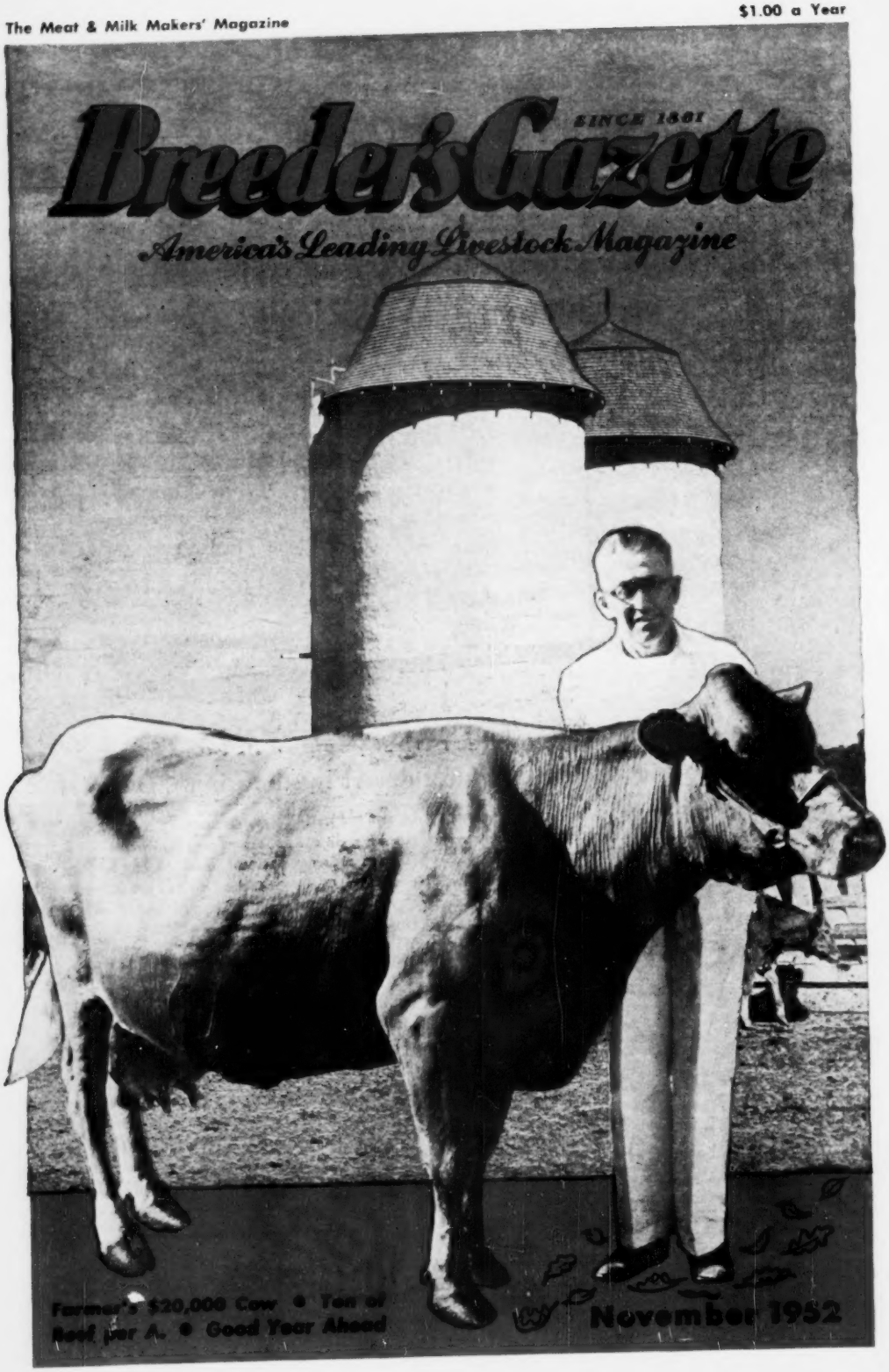
The Meat & Milk Makers' Magazine

$1.00 a Year

Breeder's Gazette

SINCE 1881

America's Leading Livestock Magazine



Farmer's $20,000 Cow • Ton of Beef per A. • Good Year Ahead

November 1952

(Continuation of standard equipment and trim illustrated is dependent on availability of material.)

Stack up what you get for what you pay . . . and join the nation's largest group of truck users by choosing Chevrolet!

Here are the facts—the plain hard facts—about Chevrolet trucks. Here are the reasons why more people own and operate Chevrolet trucks than any other make! Chevrolet's low purchase price . . . Chevrolet's on-the-road performance . . . Chevrolet's on-the-record ability to work for rock-bottom wages in terms of fuel and maintenance. All are good sound reasons why Chevrolet is the favorite of farmers across the nation. But be your own judge. Check the facts. Then see your Chevrolet dealer for America's top truck value! Chevrolet Division of General Motors, Detroit 2, Michigan.

Fact No. 1

Save Money on Purchase Price

Stack up a Chevrolet truck against *any other truck* capable of handling the same payloads. You'll find the Chevrolet truck lists for less. And it brings you ruggedness, stamina, and great truck features.

Fact No. 2

Save Money on Job Efficiency

Chevrolet trucks are factory-matched to your payload requirements. Frame, axles, springs, body, brakes, and power are part of a well-balanced team that does the job at lowest cost.

Fact No. 3

Save Money on Operating Costs

Chevrolet trucks cost least of all to own and maintain. Valve-in-Head economy saves on gas. Chevrolet's special 4-way engine lubrication system reduces wear, keeps oil costs low. Upkeep costs are held to a minimum.

Fact No. 4

Save Money on Lower Depreciation

Chevrolet trucks traditionally bring more money at re-sale or trade-in than any other make of trucks which cost about the same when new. Chevrolet's market value stays *up* because the value stays *in*.

CHEVROLET first in demand in value in sales

MORE TRACTION

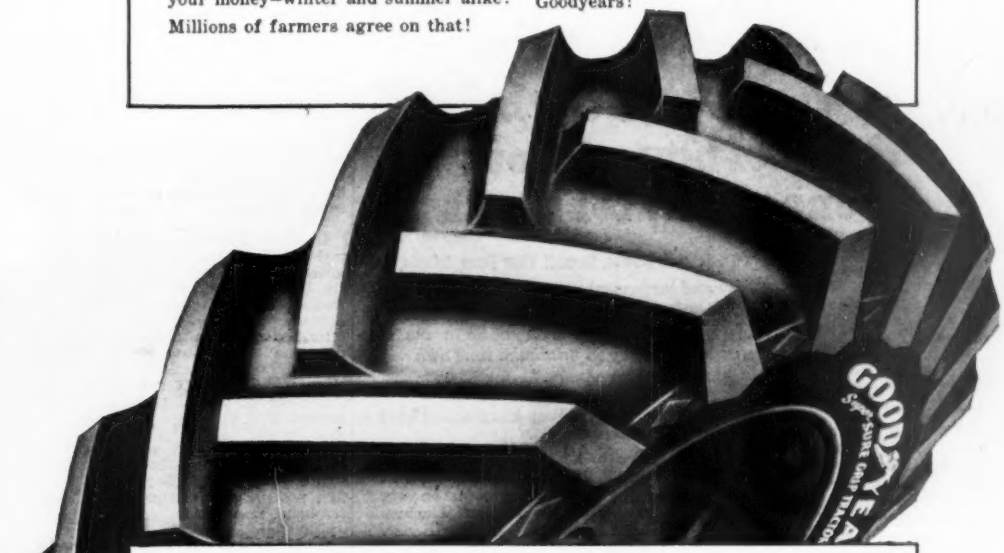
for winter work—at no extra cost!

Now's the time of year when you need sure-gripping tractor tires more than ever to get those winter chores done quickly. Ruggedness is another "must"—and so is even wear—but the tire that also pulls where others *won't*, is the tire that gives you the best day's work for your money—winter and summer alike!

Millions of farmers agree on that!

Survey after survey, year after year, shows far more farmers prefer Goodyear's farm-proved Super-Sure-Grip than any other make. There is NO close second!

So why not insist on fullest value in every way? There's no extra charge for Goodyears!



3 REASONS WHY GOODYEARS GIVE "THE GREATEST PULL ON EARTH"

STRAIGHT LUGS. Goodyear lugs are ruler-straight and come closer together at the shoulders—providing the time-proved, wedge-like bite that holds the soil in place and gives this tire more traction – gives your tractor more pulling power.

O-P-E-N C-E-N-T-E-R – pioneered by Goodyear. Most widely imitated of all tractor tread designs because farm experience proves it the most efficient – *when combined with straight lugs!*

EVEN WEAR. Goodyear *straight* lugs work against the soil evenly, pull evenly, wear more evenly – to lengthen tire life and make your tire dollars go farther.

GOODYEAR

Super-Sure-Grip Tractor Tires

FIRST in Traction
FIRST in Long Wear
FIRST in Popularity

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

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"MY NEW HOLLAND "77"

Put up 10,000 bales of hay without one penny for repairs!"

says Dr. John R. Walker, Summit View Farm, Atlanta, Ga.

"Hay and permanent pastures are essential for the production of my pure-bred Angus cattle. "My New Holland "77" has put up the maximum amount of hay in minimum time with less labor, and no repairs."

WITH A "77", one man on a tractor can bale up to 10 tons of hay an hour! You can bale your hay the day it reaches the right stage of curing . . . before rain, or too much sun cut down feed value. New Holland's baling action is gentle, too. Protein-rich leaves and blossoms are packaged right into the bale, not shaken out into the field.

You can count on highest capacity from your "77" all season long. It's rugged, built entirely of steel and designed with fewer parts. That's why it's the choice of custom balers, men who must have speed and dependability.

See the New Holland "77" at your dealer's. Decide whether it wouldn't make good sense to own one on your farm. The New Holland Machine Co., a subsidiary of The Sperry Corporation.

Don't take a chance! Always use New Holland Certified Twine. It bears the U. S. Testing Co.'s Seal of Approval for meeting its rigid standards of quality and strength.

PERFORMANCE EXTRAS

Full-Floating Pick-Up

Spring fingers on the floating pick-up follow ground contours closely, pick up cleanly. Adjustable guide wheel allows fingers to sweep within one inch of the ground—can be raised when baling crops with high stubble.

Anti-Clog Knotters

Knotters on the "77" are inverted so that dust and chaff can't collect on working surfaces. They clean themselves as they work, tying two knots in only seconds while the bale is under compression.

Micro-Slicing Adjustment

The stationary knife is set by micrometer-type screw adjustments. Once set, it stays in place . . . there's no fussing with shims. Blade can be removed for sharpening without disturbing the adjustment.

NEW HOLLAND

"First in Grassland Farming"

New Holland, Pa. • Minneapolis • Des Moines • Kansas City • Brantford, Ontario

by Carl W. Gay

1. When did the feedlot become the center of livestock activity on corn-belt farms? About 1875, when many pastures were broken for grain and range cattle and sheep began to dominate the stocker and feeder market supply.

2. What has the foot-and-mouth disease quarantine done to the cattle population of Mexico? Increased it by 3,000,000 head, in spite of the disease losses, since 1946, when all exports to the United States were banned. An export quota of 500,000 head per year is asked now that the quarantine is lifted.

3. How early should dairy calves be fed hay? High quality alfalfa from birth to prevent the formation of hair balls from licking and fiber balls from eating bedding.

4. What is the history of the animal protein factor recently receiving serious consideration by swine feeders? Dr. Damon Catron announced in 1948 that a fermentation product sometimes occurring as a by-product of antibiotics had given amazing results when used in feeding tests at Iowa State. The substance was called "animal protein factor" since it seemed to take the place of animal proteins in hog rations.

5. How much may weather conditions at harvesting influence the protein content of hay? Hay normally 18-21% protein may contain only 11% after being rained on.

6. What was an important source of the cattle and sheep that stocked the Southwest ranges of this country? A chain of Spanish missions extending from the east coast of Mexico along the Rio Grande and over the mountains to the Pacific. Their flocks increased until they got out of bounds, and many reverted to the semi-wild state in which the pioneer ranchers found them early in the 19th century.

7. What is the status of pregnancy tests? That developed for mares is the only one on which the stockman can rely thus far. A sex test for the human subject based on the presence of free estrone, the female sex hormone, which causes a reaction in the mother saliva has been developed and reported by Loyola and Northwestern Universities, Chicago, which may prove effective for livestock.

8. What is the correlation between size, resulting from growth and development of the dairy heifer and her ultimate production? New York DHIA records on thousands of cows show an increase of 700 to 800 lbs. of milk for each increase of 100 lbs. in body weight.

9. The fiber content of alfalfa hay (28.9%) is slightly less than that of timothy hay (30.2%), how about the digestability of this fiber? Swift, Penn State, reports "Crude fiber of timothy hay is more highly digested than crude fiber in alfalfa hay."

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The Milk & Meat Makers' Magazine

SAMUEL R. GUARD, Editor; BAILEY GUARD, Publisher; RODERICK GUARD, Assistant Editor; RALPH W. POULTON, Advertising Manager; CLAUDE W. MITCHELL, Swine Editor; JUNE A. BURKS, Subscription Manager; ARGYLE T. WAMPLER, Art Editor. Our Advertising Representatives are PECK & BILLINGSLEA, 185 N. Wabash Ave., Chicago 1, Illinois, BILLINGSLEA & FICKE, 420 Lexington Ave., New York 17, New York, W. M. TEMPLE, Suite 806, 1612 Baltimore Ave., Kansas City, Missouri. Charter member of Audit Bureau of Circulations. Entered as second-class matter at the Post Office at Spencer, Indiana, under Act of March 3, 1879. Published monthly and Copyrighted 1952 by the Breeder's Gazette Publishing Company, Inc., Stockyards, Louisville 6, Kentucky.

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Sam Guard's Roundup

Grace for November

IT IS GOOD, OH GOD, VERY GOOD, THAT ALL-SAINTS' DAY FOLLOWS HALLOWE'EN. Forgive us, Lord, for shucking corn this Sunday, but we remember how you justified your own disciples on the Sabbath. When we get down off that picker and go into the election booth, wilt Thou, Father Almighty, guide this horny hand the right cross to make. Seems like every day should be Thanksgiving Day on this farm, Lord, so copiously has Thou blest us. Was it because the least of these Thy children, hereabouts or thereabouts, might have been an-hungered, or naked, while we have fine wool and a 15-lb. turkey. Make us humble, just, kind—and thankful, thankful, always, oh Lord, our God. Amen.

Thanksgiving Turkey

YOU MAY THINK THAT YOUNG FELLOW UP THERE AT THE TOP OF THE page is trying to snatch a Thanksgiving dinner for himself, so intent is he. Nope, that guy is a Ph. D., Cornell. Indeed, he is one of the USDA boys at Beltsville who developed the Small White turkey which has swept the country. He needs the plumage of that White Holland, the broad breast of that Bronze. He will add to the bloodstream Narragansetts for hatchability and the native wild turkey for small bone. But how can he get a tom that will dress out no more than 12 lbs. or a hen at 7½? You see, the real boss of all the meat business, Mrs. American Housewife, has decreed that she must have a turkey that she can get into her little apartment oven. Well, Lady, here it is, and only 35c a lb. Worth twice that.

Be Sure and Vote

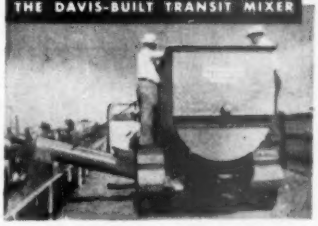
WELL, NEXT TUESDAY, NOV. 4TH IS THE DAY. YOUR CHANCE TO HAVE your say on the leadership of the nation for the next 4 years. A good stockfarmer like you will let nothing (short of a late-farrowing sow or a broken leg) interfere with that right, that privilege. Agriculture is not the issue this time. The real issue lies on the other side of the world. Our farmer has won his great political battle for parity prices, in war or peace. At last we have a floor to build upon. Both parties are bound to preserve the farm welfare as absolutely basic to the national economy. If you're thinking of the next Secretary of Agriculture it seems to be between Herefordman ROY TURNER of Oklahoma and harvesthand CLIFFORD HOPE of Kansas. Both good men, too. But I expect you Breeder's Gazette folks to cast 500,000 votes. No less!

Temporary Cribs

NEVER SAW A MAN YET WHO WASN'T HAPPY WHEN HE HAD MORE corn than crib room. You farmers in the Cornbelt must broaden your smiles tho—to make up for the worried brows in the Southwest. Right now I was wondering if you haven't got a little space in the haymow where you can store corn. Or couldn't you rig up a temporary crib in the driveway? Aren't there posts, snowfence, chicken wire and tarpaper around so that with your ingenuity you can provide a sound storage place 6 inches off the ground and covered with a roof that will turn water, as the PMA man says? Whether you seal your corn or not it is like money in the bank to have it in a place where you can borrow $1.60 a bushel on it, if you have to. But save every nubbin. Somebody will need it. *(Please turn to page 22 and continue)*

Machines INSTEAD OF MANPOWER!

THE DAVIS-BUILT TRANSIT MIXER



Completely mixes rations with ensilage or hay. Banishes hand labor, slashes costs, and takes most of the guesswork out of feeding cattle. NOW! PRICED SO ALL CAN AFFORD—a size for every need. Automatically fills bunks or self-feeders.

IDEAL FARM FEED MILLING PLANT

Ideal farm feed milling plant. Ends scoop shovel backache *and* feed cost headache. Combination Roller Mill and Batch Mixer with 3 H.P. single-phase motor. Bucket elevator attachment lifts grain and mixed feed to overhead storage. KRIMPER KRACKER GRAIN ROLLER. All sizes from ½ to 25 H.P.

CORN AND COB GRANULATOR

Successor to the Burr and Hammer Mill. Completely revolutionizes the method of processing ear corn. A matchless finished product uniformly granulated, not ground or hammered—it's sliced. Each kernel cut into 3, 4, or 5 pieces and the cobs and shucks crumbled likewise. Cattle lick it up to the last ounce. Poultry eat the neatly cut corn, leave cob for litter. Is best method in existence for reducing cobs for mixing with Urea and molasses. Cut shows 3 to 7½ H.P. size. Big production units also for any requirement. It uniformly granulates or chops hay, corn stalks, corn cobs, shucks, green oats, vegetables, copra, leather and rubber scraps, tobacco stems. Handles anything WET OR DRY at far less cost for power and upkeep than any other mill.

FREE! **Bulletins on how to slash your own feeding costs. Samples, crimped, also granulated feeding grains.**

Dept. BZ-11

DAVIS BUILT HCD SINCE 1894

H. C. DAVIS SONS CO.

Established 1894, BONNER SPRINGS, KS.

Acts Fast...Shortens Sickness... Stops Weight Losses...Saves Animals!

Easy-to-give, low-cost, all-purpose sulfa!

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SULFAMETHAZINE *Lederle*

A *once-a-day treatment* against

SHIPPING FEVER · FOOT ROT · CALF DIPHTHERIA
ACUTE MASTITIS · METRITIS · CALF SCOURS
BACILLARY ENTERITIS
OTHER BACTERIAL DISEASES and COCCIDIOSIS

Treat promptly! Use SULMET Sulfamethazine *Lederle*. Even a short delay in treating sick animals can cause serious losses in weight and stunting, which may be followed by death. Swiftly and effectively, this all-purpose sulfa goes into action to knock out bacterial infections. Once-a-day treatment may prove sufficient.

SULMET is also effective against many common diseases of horses, swine and sheep.

Time-proved SULMET Sulfamethazine *Lederle* is available in 6 dosage forms: POWDER, TABLETS, OBLETS*, TINTED EMULSION (for pink eye bacterial infections), SOLUTION 12.5% (for use as a drench, if desired), and INJECTABLE SOLUTION (by, or on the prescription of, a veterinarian).

Your veterinarian is your dependable ally in the constant war against disease. Consult him for the most effective management practices and disease-control procedures to meet your individual needs.

Free literature gladly sent upon request.

*Reg. U. S. Pat. Off.

Animal Industry Section

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Town_____ County_____ State_____

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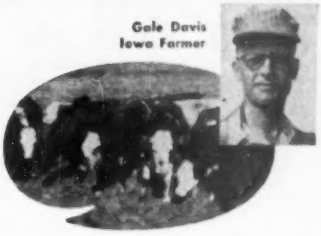
Logan Thompson
Minn. Farmer



Gale Davis
Iowa Farmer

FROM THE FREEBORN COUNTY FAIR GROUNDS, ALBERT LEA, MINN., TO BREEDER'S GAZETTE FOLKS EVERYWHERE:

THIS is the last Thursday in September. I was invited up here with about 5,000 other farmers by your progressive packer friends, Wilson & Co. They have a plant here which is a model of what an interior slaughter house should be. And do. Because Wilson leadership for the 3rd successive year has brought together here in a convincing land-use demonstration and livestock clinic the farm bureaus, the college extension forces, the soil conservation services, the beef producers' associations and the livestock breeders of the two states. A typical Iowa farmer, Gale Davis of Sac County, and an equally typical Minnesota farmer, Logan Thompson, of Wabasha County, came in with their soil maps, feeding figures and year's experience in meat-making to personalize the management practices for us, and for you.

I never saw such a corn crop in my life! Across northern Illinois up through Iowa and into the rolling prairies of Minnesota the yield of feed grain is prodigious beyond words. All along the highway you can see 80 and 100 bushels per acre of hybrid corn, the gleaming husks uniformly 3½ feet high making a ribbon of gold clear across the country for miles and miles. Our brother stockmen in Texas, Oklahoma, Kansas and the mid-South will be glad somebody has abundant corn.

We stopped at some of the ever-normal granaries along the railroad tracks. Those steel cribs are half-full of corn already. Much of it is 1948 corn, on which a storage charge of 24c a bu. will have to be paid by somebody before Commodity Credit can release it. Hog numbers are down. Farmers are not buying many feeder calves—yet. Oh, the proper storage of the 1952 corn crop is going to be a bigger problem than the 1948 crop ever was, and that, you may remember, is reputed to have elected a president.

GALE DAVIS could lay his hands on $2,000 cash in 1945 when he got mustered out of World War II. He debated whether to teach or whether he had working capital enough to farm. He rented 160 acres near Nemaha, Ia., from his two uncles and started to feed steers, raise hogs and let Lorraine keep Hy-Line pullets. Before he got the equipment he needed it cost him nearer $9,000 than $2,000. But last year he paid income tax on $7,845. His 19 sows saved 160 pigs last spring, which are going to market at 210 lbs. apiece and netting $40 a head. Charged against them are 5 acres of rotation meadow pasture @ $20 an acre, $20 worth of mineral, half a ton of alfalfa. Veterinary bill was $240 and electricity and equipment depreciation $172. They ate 100 bu. of poor corn @ $1.15, 1,800 bu. of good corn @ $1.68, 262 bu. of ground oats @ 80c, and 5½ tons of tankage @ $127.50. Total cost, $4,666.00. Gale made $2,000 on his hogs.

Now, now don't get impatient. I'm going to tell you how he came out on his steers! Gale Davis thought western steers were too high last fall, so he hunted around at the sale barns and collected 33 head. They averaged 480 lbs., cost him $34.50 a cwt. In the picture you can see the mixture—some Shorthorn, some Hereford, even some Holstein!

They went into the feedlot Dec. 14th and for 73 days got 5# corn-and-cob meal on 9# corn silage, with 8# of clover-alfalfa-timothy hay and ¼# each of 45% protein feed. On Feb. 6th the silage was out, so they got 6# of corn-and-cob meal, 13# hay and ¼# protein. They were turned out to pasture on May 1st, with 10# shelled corn and ½# protein feed apiece. After 61 days, on July 1st, the shelled corn was upped to 12# and protein to 2/3#. After 31 days of that, on Aug. 1st, the corn was raised to 15# and the protein feed to 1# for one more month. Then for the final 16 days, Sept. 1 to 16, still on pasture, they got 17# of shelled corn and 1¼# protein.

Each steer had gained 532 lbs. at a cost of 21.4c per pound of gain, or $113.77 per animal, feed cost. One steer never did any good and was finally got rid of at a loss of $81.55, or $2.47 that each of the finished steers had to pay between them. They also paid $3.33 per head for veterinary costs, $10.46 for interest and $4.48 for trucking costs. So each steer ran up a bill of $134.31 on top of a purchase price of $171. They brought $30.70 per cwt. on the market, weighed 1,018 lbs. and netted Mr. Davis a profit of $7.21 apiece. Besides the manure!

Altho Lorraine wasn't on the stand, from the way they talked I'll bet she made more off her 200 pullets than Gale did off his steers. It was the egg money that bought the television set, I guess, and paid little Gary's hospital bill when he had polio. Still many a cattleman who bought both cattle and feed, will tell you that Mr. Davis was lucky to make $7 a head rather than to lose it.

But suppose Gale Davis would have bred and raised his own feeders, as the Minnesota man did. Would he have come out any better? Let's see:

LOGAN THOMPSON has a 260-acre place over toward the breaks of the Mississippi, rougher land. Still his pretty white home is protected by the tall fir trees and his big red barns tell you that he's doing all right. Two boys and a girl make life interesting around there. Logan has a trench silo in addition to the upright one that points at you like a big brick bazooka from the plane. The carefully contoured strips running like trenches around the rises maintain the impression that there must be a war on somewheres. Logan has a dandy little flock of Hampshire ewes. And husky Spotted sows around his strawstacks. He's diversified, stock-wise, all right. His eggs are in three or four baskets.

Mr. Thompson has 34 Angus brood cows, not registered, but headed by a purebred sire now 3 years old. (That white-faced calf in this picture is unmistakable evidence that his neighbor has a Hereford bull, and the grassed waterway is pretty deep under that fence.) He paid $40 a head for his doddie foundation heifers, back in 1931. That's the same year he assumed a debt on the place of $16,500.

These bonnie black cows get no grain. None at all. They run in the cornstalks and the old meadows until mid-December. When the weather gets bad the cows run into the barn where they get 35# of alfalfa-brome grass silage and 13# of chopped alfalfa-brome grass hay, apiece. The cows calve about the last of April or the first of May. You bet the master is there at the time. Still, this year he only raised 30 calves from 34 cows.

Well, here was Logan Thompson on Sept. 1st with 23 810-lb. steers after 10 months' feeding. They weighed 810 lbs., and brought $29.75 a cwt., or $240.98 a head. But the records showed that the cost of growing the calf to 380 lbs., and then feeding it out to 810 lbs. totaled $120.36. His gross return was almost exactly twice that. And he had the manure, too! How?

Well, the brood cow costs figured against each 380-lb. feeder calf, are as follows: cornstalks, only 2 weeks, $1.00; grass silage, 3 T., $27.00; chopped hay, 2,236 lbs., $22.36; minerals, $1.00; carrying charge, $15.00; taxes, $2.50; breeding costs, pro rata bull keep, $2.54; veterinarian, 30c, a total cost of $71.70. Mr. Thompson thinks he should be glad to pay $27.00 for 9 tons of manure, so he deducts that from the cost per calf. Then he adds the increased cost due to only 88% calf crop instead of 100%, $5.36. That brings it to $50.06 for one 380-lb. calf, or 13.2c per lb., exclusive of pasture. His permanent pasture field consists of 75 acres, where the cows and their sucking calves graze from May to November.

The 23 calves went on feed Nov. 1st and for 106 days *(please turn to page 15)*

Brahman X Devon Bull at Everglades Station.

Ton of Beef per Acre of Grass—in 12 Months!

MANY of you visitors to southern Florida who see only the beautiful beaches and coastal areas are doubtful of the stories you hear about the agricultural productivity of the Everglades, I'm sure. When a sugar cane field of 80 acres produced an average of 90 tons of mill cane per acre in a 12 months growing season (reported by the U.S. Sugar Corp.) few people outside of Louisiana took notice. But computed at 200 pounds of sugar per ton of cane, this yield would be 9 tons of raw sugar per acre. On many farms of your middle west 9 tons of corn for silage would not be considered a crop failure!

When five cuttings of Pangola grass in on year gave a green weight yield of 90.8 tons per acre—reported by Dr. Roy A. Bair in the 1946 Annual Report of the Florida Agricultural Experiment Station—few believed the record authentic. This was also true *when the total live weight gains on cattle grazing on one acre of St. Augustine grass during a 12 months period exceeded 2,000 lbs.* As the records for succeeding years became known it was found that *for 5 consecutive years the average annual gain was 1,802 lbs. per acre,* some above 2,000 lbs. in 2 of the 5 years.

The record of this gain was published in the 1948 Annual Report of the Florida Experiment Station. These data were revised to account for the actual size of the animals; hence, there were slight corrections from the original reported figure as shown in the table. The average weight of the cattle on St. Augustine grass for the 5-year period was 548.7 lbs. They grazed an average of 1,139.6 days per year, or an average of a little more than 3 animals of this size per acre daily for 5 years. The average daily gain was 1.64 lbs., which is more than is usually obtained on pasture, but not abnormally high. Cattle have shown gains of 2¼ lbs. per day on pasture for short periods; however, gains over 1¼ lbs. daily, annual average, are considered high.

When these grazing trials were being planned, there were trace element problems with cattle in the Everglades which were under study but incompletely solved. To avoid development of those deficiencies it was considered pertinent to feed one pound of cottonseed meal or pellets per head daily. This was continued to the conclusion of the experiment in 1948, even though the deficiency problem had been corrected by feeding larger amounts of copper in the mineral mixture. The total effect of this meal may have been greater than its nutrient content would indicate.

The grazing plan followed in these trials was to weigh a group of 6 to 10 animals and allow them to consume all the grass they could in the one-acre pasture in about a week or ten days. At this time they were removed, weighed again as a group and returned to some other acre pasture of another variety of grass in the trial. Water and mineral supplements were available at all times. The element of animal "fill" was eliminated as far as possible by not allowing the pasture to become overgrazed. At times it was difficult to determine when to move the cattle to a new pasture. However, during the first two years, before this record was made, the plan was evolved to move the cattle before all of the available grass was consumed or while considerable grazing remained in the lot. This plan was continued during the 5-year record period 1944 to 1949.

To express this another way, slight overgrazing reduces both grass production and animal gains, while excessive overgrazing destroys the pasture and starves the cattle even to the point where a so-called "pasture" becomes merely an exercise lot with no grass production. Proper pasture management, whether in an experimental trial or in commercial production, is as fundamental in obtaining grass yields as is field management for the production of other crops, such as corn.

A new series of experimental pastures has been established at Belle Glade and grazing trials are in progress which will serve as a check on the records made previously. In these trials the pastures are each two acres instead of one, as in the first trial. There are two sets of pastures which are grazed alternately for two weeks each. Cattle are weighed individually every two weeks and moved to the same variety of grass in the second series of lots. If they fail to gain weight some animals are removed. If they gain well and the pasture appears to have excess grass at the end of two weeks, more cattle are added.

The yield of grass consumed in the earlier tests is computed by an indirect method in which the nutrient requirement of the cattle for maintenance plus gain in weight is converted through total digestible nutrients into the pounds of grass necessary to provide those nutrients. "Feeds and Feeding," by F. B. Morrison, contains the fundamental data on the t.d.n. requirements of cattle for maintenance plus gains or loss in weight. From those tables these yield records are determined, with due deductions for the cottonseed meal fed. The record indicates that the cattle consumed 94,684 lbs. of grass annually per acre for 5 years, or slightly more than 47 tons of green weight. This yield is only slightly above the weighed one-year record of 42.2 tons green weight reported by Dr. Bair in 1946 for his St. Augustine grass plots.

Further studies are being made of the protein requirements of grazing cattle. Such studies may indicate the extent to which the cottonseed meal included in the daily ration during the grazing trial had on the outstanding gains obtained.—RALPH W. KIDDER, University of Florida.

YIELD OF EVERGLADES GRASSES IN ONE ACRE GRAZED TRIALS 1942-1948 AT EVERGLADES EXPERIMENT STATION

Grass Variety	Number Years	Av. Wt. of Steers	Grazing days per A.	Av. gain lbs. per A.	Av. daily gain lbs. per day	Calculated grass lbs. per A.	Highest annual gain lbs. per A.
St. Augustine	5	548.7	1139.6	1801.9	1.64	94,684	2089
Pangola	3	487.9	1009.0	1078.6	1.08	67,556	1504
Carib	5	539.5	845.7	1030.3	1.13	61,842	1981
Para	5	554.2	777.3	840.9	1.08	54,405	1456
Coastal Bermuda	5	533.5	852.2	659.9	0.79	52,279	1396

—From Annual Report, Florida Experiment Station, 1948.

Yield of grass from 5 mowings at Everglades Experiment Station in 1945-46 season: Pangola grass, 90.8 tons green weight; Coastal Bermuda, 44.9 tons; Roselawn St. Augustine, 42.2 tons.

Feeding for the Most $

YOU can be thankful that prospects are for good times for the next 8 or 10 months. May stay good somewhat longer than that, but many good analysts are dusting off storm signals and advising that the next year be used to get the deck ready for rough weather. The peak of activity from defense spending, business spending for new plants and equipment and the housing boom may not be far ahead. As in the past, when the turn comes, Agriculture may feel it first.

Livestock and livestock product prices are not out in front as far as they were a year ago. Using prices either in 1910-14, the old parity base period, or in 1935-39 as a marker to measure from, livestock prices show a greater advance than crop prices. Compared with a year ago, however, livestock and product prices (dairy products excepted) are down, while prices of leading crops are up.

Reasons for lower livestock prices are mainly on the supply side. More cattle and lambs are going to market this year; demand from producers to build up herds and flocks is less; fats, hides and wool are more plentiful; production of eggs and turkeys is higher. Dairy production, on the other hand, is down slightly.

The outlook over the next few months is for strength in the general level of both livestock and feed prices, with livestock likely to be the stronger.

Steers & heifers of the better grades have had no seasonal price rise. Instead, they lost about $1 a cwt. in September but they have held up better than intermediate and low grades which have been pressed down by a rising tide of grass cattle. Arrivals of Choice and Prime steers at three leading markets where a daily count by grades is made have been running considerably larger than last year. Still the supply of these long-feds appears likely to fall enough to permit an overdue seasonal price rise.

Commercial and lower grades of cattle probably are rounding their seasonal low point in prices. They are likely to strengthen a little before the end of the year. Spurred on by dry weather in the far Northwest, parts of the Rocky Mountain region and most of the Great Plains, grass cattle have been trekking to market in substantially larger volume than last year. The supply may not begin to diminish until sometime in November. Competition from pork will increase until December or January, so that price gains on such cattle in the next three months probably will be small.

Stocker & feeder cattle prices probably will be mostly steady to higher in the next few months. The average price paid by farmers for stocker and feeder cattle and calves was $23.40 a cwt. on Sept. 15, compared with $32.40 a year previous. That is rough on the grower who never had it so good as last year, but prices are down to levels that look quite safe for the finisher. Demand has improved at these lower prices and movement into feed-lots is keeping pace with last year, when cornbelt buyers' hands were forced by the large amount of soft corn.

Whether you want to take fleshy, weighty feeders to shortfeed for the winter market, dogies to put on a heavy roughage and light grain diet for the spring market, or yearlings or calves to be roughed through the winter and finished for the summer or early fall market next year, the prospects at prevailing costs look good.

Hog prices probably will drop a little lower in the next month or so before hitting their winter low. Supplies are likely to increase a fourth to a third before reaching their peak. To absorb the larger supply, consumers will have to be induced to buy more pork at the meat counters and packers will have to put some in their freezers and curing cellars for sale next summer. Slightly lower prices probably will be necessary to bring these things about.

Farrowed last March 17th, this litter of 12 Poland Chinas weighed 2,186 lbs. on July 25th. This is a Ton Litter in 4 months! smashing to smithereens the old standard of 2,000 lbs. of pork from a sow in 6 mos. Co. Agent congratulates Hoosier breeders John & Wray Fox.

Prices on hogs probably will not go quite as low as in December last year and are likely to be substantially higher in January-April than early this year. The hog crop is about 9% less and consumers probably will have a little more spending money than a year earlier. In spite of smaller supplies, current prises are lower than a year ago—due largely to lower prices for lard and fat cuts. Lard prices are likely to hold their present level fairly well during the winter, however. Last season they dropped about 6c a pound from late November to early May, and that meant $1 or more a cwt. off the price of your hogs.

Selling hogs in early November down to 200 pounds, or a little lower if they are well finished, and carrying lighter weights for sale on a bulge possibly in late December or after mid-January, depending on their size, seems to be the best marketing program for the rest of the spring crop. *Fall pigs should be pushed to make the late February or March market if possible.*

The hog-corn price ratio probably will hold fairly close to the long-term average. It seems likely to pay to breed for as large a spring pig crop next year as your facilities and feed supply will warrant.

Lamb prices probably will work substantially higher in the next few months. Supplies have *(please turn to page 14)*

Tack on Barn Door for November

Sell hogs closely now; hold rest till after December low. . . . Finish buying your feeder cattle or lambs. . . . Breed sows and gilts for normal spring pig crop, at least. . . . Buy rest of winter needs of corn. Buy by-product feeds for month or two ahead. . . . Sell some dressed turkeys direct to users, if you're near town. . . . If you have high quality legume hay, you can go easy on boughten feed. . . . Improve your feeding setup. You can save labor with self-feeders, mechanical feeding equipment and automatic waterers. . . . Early storm comes, protect hogs, turkeys and other livestock still in fields. . . . Pack water pipes, clean out tanks and get water heaters all set.

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Milk Cows in the Meat Belt

[Our Editor goes lookin' for a Cover Page Cow]

WHEN you see the world's greatest milk cows—rating high in form and dairy quality by the scorecard and spinning the pointer on the scales clear around at every milking too—when you see them marching in great circles around the judge at Waterloo, you begin to understand what is going on in the meatbelt. The farmer is wisely diversifying his livestock. He is adding a few dairy cows to his line. Already a canny feeder and caretaker, he is supplementing his seasonal income with a regular milk check.

For instance, in the Guernsey barn you would come upon a farmer from down towards Corning, where the Nodaway is just a big creek. Harry Reese is his name. His son Lewis is married and they farm 320 acres together—with Hampshire hogs, Aberdeen-Angus beef cattle and the Guernseys. His daughter and son-in-law, and grandchildren of course, live on the adjoining farm. Son-in-law has Guernseys and belted hogs too, but Herefords, no matter what Grandpa says, to keep up his beef line. Harry Reese inherited his half-section from his father, who had it from Grandfather Reese, who settled it right after the California gold rush. Liked Ioway so well he wrote back home about it and pretty soon they had neighbors with cabins strung out along the road. "Stringtown" they called it, and Stringtown Guernsey Farm is the name of Harry's place today.

Don't know how the year 1933 was at your place, but it was pretty tough at Stringtown. Harry burned corn in his tank heaters, sold 400-lb. sows for $7.00. No, not $7.00 a cwt., $7.00 for the whole sow. But he just had to have a herd bull and he knew where there was a likely one for only $35. So he hauled 250 bushels of corn to the elevator and got enough cash to buy that bull. Mated to his best cow, Harry got a nice heifer calf. On Aug. 15, 1936, she was born. He liked her from the minute he wiped her off and helped her up to stand to her feet and suck.

Harry Reese grew in spirit and milking-mindedness with the development of that lovely heifer. Her first calf was a bull. She milked mighty well with him tho, and Harry sold that calf, after he got him registered, for $150. Next calf was a heifer, a real milk cow, which brought $200. Then came a bull calf which brought $100, while the cow herself was milking super-duper. In '41 she had another heifer calf and made 16,050 lbs. of milk and 787 lbs. of fat—on ordinary farm milking, twice a day. In 1945 she made the State Champion record. Mr. Reese had her classified and boy, she came out "Very Good." To make a long story short, Taressa had 4 sons and 8 daughters. She'll be fresh again a week after you read this. She herself has given 139,704 lbs. of milk in her lifetime. Her daughters had produced 234,224 lbs. of milk when the American Guernsey Cattle Club figured what this one cow had been worth to Farmer Harry Reese:

The milk of the old cow and her daughters was worth $12,444.41 above the cost of feed. Five of her calves and a half-interest in her 1947 bull calf sold for $1,414. Those left are conservatively valued at $7,100. The old cow herself would bring $1,000, easy. Her new-born calf, if a bull, what with her record, would bring that now. So this one 16-year-old purebred Guernsey cow has returned the farmer who bred and raised and milked her no less than $20,958, and the end is not yet. She's perfectly healthy, still breeds, and her udder is sound as a new dishrag.

One farm cow, $20,000!

Milked twice a day, fed 22 tons of grain, 17 tons of hay, 23 tons of silage, running out to pasture every day with the rest of the herd of 20 milk cows!

Would Mr. Reese please lead her outside so Bill Dunlevy could take her picture? He would, and gladly. Wants the rest of you subscribers to see her—to see what a gentle, earnest, corn-hog-beef farmer can do with a purebred, tested, classified dairy cow. That's Stringtown Tarinca's Taressa out front, folks, on this very cover page, with her farmer-breeder-owner, Mr. Harry Reese, of Prescott, Ia.

● Oh, the 40th annual Dairy Cattle Congress at Waterloo, Ia., was one of the greatest farm shows ever put together on this continent. Unsubsidized, living and building on its own gate receipts, booth space, advertisements and stall rent, this

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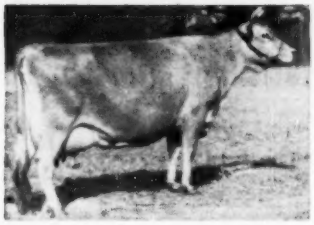
BOOKSHELF, BREEDER'S GAZETTE, Spencer, Indiana



Profit-paying Lila pailed 17,222 lbs. milk with 1,004 lbs. butterfat to clear $821.86 above feed & handling cost for Meadowridge Jerseys. Last year this 11-year-old put $1,086 worth on the Ridgeway, Mich., market.

rural exposition is a sterling example of what real showmen like Ed Estel and his capable assistant Win Hanssen can accomplish—with the whole-hearted backing of their community.

Five breeds of dairy cattle and one breed of dual-purpose cattle had National shows here. The National Holstein Show had more than 570 entries. The Guernsey came next in numbers, with 360. The Brown Swiss had one more entry than the Jerseys—288 and 287. The new secretary of the Ayrshire Breeders' Association, Chester Putney, Brandon, Vt., vowed that next year the Scotch cows would double their 175 total. About 235 Milking Shorthorns emphasized here the milkiness of their dual-purpose breed.

Both the Holstein grand champions came from New Jersey—Forsgate Farm. . . . Biltmore Farms of North Carolina had both grand champion Jerseys. . . . The Brown Swiss found their grand champion cow in Marinda Jane of Lee's Hill. Lee's Hill is in New Jersey too. The premier bull was bred by Lee's Hill and shown by Ben Eiting of Ohio. . . . Curtiss Candy had the grand champion Ayrshire bull in Swanky Friar, instead of Swanky Dan. The female champion was from Kansas, Chester Unruh's. . . . The grand champion Guernsey cow was Merry Song from Lakewood Farm, north of Chicago in Illinois. She downed two former queens of this show that graced the outstanding exhibit of Mr. & Mrs. Otto Schnering of Curtiss Candy Farms. They had cattle in every class and every breed at this great exposition. Who has ever assembled a grander group of great dairy show cattle? The grand champion Guernsey bull was their Curtiss Candy Fabron.

The Milking Shorthorn show was worth more detailed description. Weidner Prairie Farm, Dalton City, Ill., had the grand champion bull and Lilydale Farm, Springfield, Mo., the grand champion Milking Shorthorn cow.

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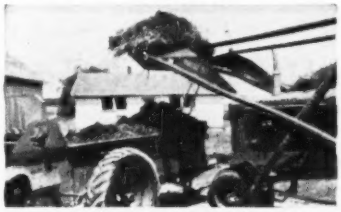

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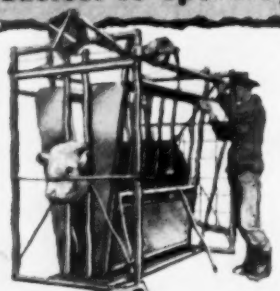

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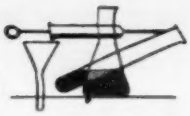
Animal Health and Nutrition



Swirling water for mastitis is being tried by Florida's Livestock Sanitary Board. Dr. A. A. McMurray, director of their mastitis control division, says they started last June by fitting a metal device around the udder, attaching a hose and forcing a swirl of water around the infected quarter. The water flows over the rim and drains away. Even for acute mastitis with staphylococci infection after a half-dozen treatments the inflamation subsided and milk returned to normal physical appearance. In most cases secretion was increased. In hydrotherapy treatment, even though the infected quarter was thoroly milked out first, one-half pint to one quart depending on the individual was removed from the same quarter immediately following a 15 minute exposure to the swirling water. The quarter seems to be thoroughly stimulated and then relaxed, permitting the stripping out of all its removable contents. The udder was then more pliable but the indurated quarter was more definitely circumscribed. The investigations continue. No cracks now about watering the milk! Dr. McMurray just waters the udder.

A new kind of soybean oilmeal is announced by Central Soya. It is bright golden in color, opalescent, and the cellular structure has been literally exploded by the hexane solvent, the microscope shows. Then each flake has a moisture film about it which seems to make the protein more available to the animal eating it. The Michigan Station fed 25-lb. pigs to market weight, with the new process meal as supplement; they gained 1.68 lbs. a day on 3.35 lbs. of feed. At Illinois it cut down total feed 5 to 8%. Chicks made 6 to 8% faster gain on 4 to 6% less feed. Write Dale McMillen, 300 Ft. Wayne Bank Bldg., Ft. Wayne, Ind., for a copy of "Miracle in Meal," a mighty pretty booklet which will help you understand something of the microbiology of vitamins, amino acids, and plant proteins.

Aldrin is the name of a thick black compound of carbon, hydrogen and chlorine that kills insects in the soil—pests which thrive on the roots of corn, peanuts, beets and cane in the South. Either in solution or as a dust it is used against wire worms, root worms and white grubs.

Terramycin stimulates plant growth too, in a way similar to its effect on runt pigs, reported Dr. L. G. Nickell to the American Institute of Biological Science. He "spiked" 7,100 gallons of water with an ounce of the antibiotic and irrigated sweet corn in greenhouse flats. In 4 weeks the plants getting the antibiotic stimulant grew 3½ inches taller and weighed almost twice as much. Scientists do not yet know just how antibiotics stimulate animal growth, but the experiments with plants seem to indicate that it is not due to killing or retarding the harmful microflora. Maybe the antibiotic takes the place of thiamine to a certain degree, thinks Dr. Nickell after his greenhouse work with the sorrel plant.

Baby Pig thumps caused by roundworms can mean that both the pig and his owner are in for trouble. The larva, ascarid, a common hog-roundworm, invades the lungs and makes possible the filling of part of these delicate organs with scar tissue.

Keeping the worms away from the pigs is the best answer. This can be done by worming the sow well before farrowing and seeing that she farrows in clean quarters. Thumps seldom show up in worm free pigs on a good ration.

DDT is being replaced to a considerable degree by such substances as the gamma isomer of lindane, chlordane, methoxychlor and other synthetic chemicals—the A.V.M.A. committee on animal parasites said. Chlordane and lindane appear to be gaining increasing acceptance. Both a chlordane and lindane-rotenone compound give excellent control in treating cattle lice, whereas DDT is not so satisfactory for this purpose. . . . Another useful insecticide cited was benzene hexachloride, now widely used to treat sheep and cattle mange. However, this chemical is poisonous to livestock if accidentally given to them. It was explained how one owner carelessly lost two cows.

Advertisement

From where I sit ... *by* Joe Marsh

Wonder How Miss Gilbert Is in "Histery"?

By now I guess you've heard about the spelling errors in the kids' report cards this week.

A typical card looked like this:

Arithmetic . . . . . **B**
Geography . . . . . **B–**
Spelling . . . . . **C**
Grammer . . . . . **B**

I don't know if Miss Gilbert, the principal, actually wrote those cards, but she took full responsibility. This morning I hear she got up in the Assembly Hall—before all the students—and wrote GRAMMAR with two "a's" on the blackboard 100 times!

From where I sit, I'll bet this makes her even more popular with the students. It's nice to see an expert admit she occasionally makes a mistake. Too many so-called "experts" claim they're never wrong on such subjects as what you or I ought to eat . . . what we should wear . . . whether we should enjoy beer or buttermilk. A really wise person never claims to "know all the answers" all the time.

Joe Marsh

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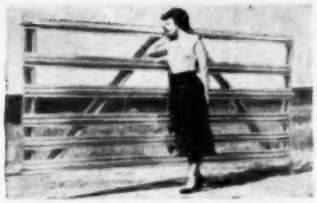

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(signed) BAILEY GUARD

Sworn to and subscribed before me this 29th day of September, 1952.

S. Margaret Harden, Notary Public
(My commission expires May 8, 1956.)

One Man's Farm

by Elden R. Groves

BEEN running around again, Sam, instead of staying home to mow pastures and the like. And I've come to a decision: If our little herd ever grows and prospers to the place where a group of touring breeders come to see it, I'm going to take advantage of the situation a little better than most fellows do.

Over at McCormick Farms the other day, Mr. McCormick put on one of the greatest picnics that Ohio Hereford Ass'n members ever saw. More than 1,000 came, including representatives from 50 high schools and 11 4-H Clubs, for the judging contests. Prizes for the top six judges consisted of six Hamilton wrist watches. Two steers had been barbecued to perfection, and made the foundation for a nice lunch.

Three of the well-known herd sires—Hillcrest Larry 7th, C.K. Crusty 46th and H.C. Larry Domino 87th—were tied to a display fence so that visiting breeders could look them over. But that was the extent of explanation of the herd, and it wasn't enough, at least for a greenhorn like me. Folks crowded around Herdsman R. Louk and Manager W. F. Yost and asked questions, but in such a big crowd they couldn't talk to everybody. What bull sired the young things in the barn? What did they weigh? at what age? What about the main herd? Why did they need be in the back pasture, where no one could see them?

I thought about the same thing as I traveled with Northeastern Ohio Holstein breeders to see three farms in Pennsylvania—Meadow Valley, Terrace Farm, and Clarence Kellog's. Some of the information comes out when the owner tells about his farm, but too many good breeders are not good speakers. Too many are a little modest when it comes to telling what was done.

Probably the best job I've ever seen done was at Russell Hoar's Jersey farm when the National club arranged a tour through central Ohio two years ago. Russell had his cows grouped in the stanchions according to sires. The sign said that the first eight, for instance, were by Bindle Dreaming Sammy, and the next ten by another sire. Overhead could be seen the records and the classification.

I think a few dollars spent with a good sign painter would be money well spent, if a large group is coming. And then the county agent or the state fieldman or somebody might be engaged to tell about the farm and the farming operation, with questions to be asked of the owner. Get somebody else to do the bragging, but try to impress on the crowd that this is the goldurndest best herd in America!

To get back to the Herefords—Host McCormick had one stunt that was unique. He gave every man present a nice necktie with a farm scene on the front, and on the back a little strip of cloth sewed on to remind them that the farm's first auction would be held on a certain date.

P.S.—You might tell Willard Brittin, Sam, that he almost put me in the Berkshire business, with that ad on pages 28 and 29 Aug. issue. I thought that was one of the greatest breed ads I'd ever seen. I don't have a single porker on the place now, but when I stock up I'll sure look around for a Berkshire breeder. He'll be a Breeder's Gazette advertiser, of course.

Pulls Feed

Hi-Suction fan in Case Feed Saver Hammer Mills pulls ground feed out fast with little time for re-grinding to dusty powder. You gain time, feed; save fuel.

Thru Fast

Powdering wastes feed and power, causes heating and slow grinding. Animals don't like dusty feed, eat less of it, fall off in production. You're the loser.

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HOW TO AVOID CRIPPLING DEFORMITIES

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Grooming Brush attachment does better job of cleaning dairy cattle. Write for information on Sunbeam Stewart clipping equipment.

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Make Better Feed at Lower Costs with a Johnson MIXALL

Mixes Dry Feeds, Blends Liquids and Soaked Feeds with Dry Feeds. A perfect mix in 2 to 5 minutes of all ingredients, dry or moist. Tilt to dump the load. Mixes up to 200 lbs per batch. Operates with electric motor.

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Daisy Cattle Markers

Solid brass tags and brass-plated chain.

No. 21—FOR NECK. Adjustable. Tags numbered both sides. $13.25 per dozen.

No. 17—FOR HORNS. Adjustable. $9.20 per dozen.

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NUTRITIONAL RESEARCH ASSOCIATES

Department 13 South Whitley, Ind.

Feed for Most Dollars

(from page 9) been heaviest since 1948. Although this year's lamb crop is only slightly larger than the record small numbers produced in the two preceding years, a larger proportion has been going for slaughter, due to drouth in some important sheep states and weak demand for feeding. That spells lighter supplies during the fed lamb season. Grass lamb arrivals will drop rapidly in November.

Feeder lambs bought now may be able to make some cheap gains on fall forage before dead of winter. Light lambs from the Southwest could be headed for the late winter or early spring market without risk of overweight.

Milk & butterfat prices are due to advance a little more before reaching top for the season and are likely to hold fairly close to the peak for several months. Production will drop slightly to a low point around Dec. 1 but any increase from fall freshening cows will be small.

THE TREND OF PRICES

(All prices, some of which are nominal, are at Chicago except milk cows at St. Paul, wool at Boston and hay at Kansas City.)

	Oct. 8, 1952	Month Ago	Year Ago
Beef steers, top	$ 35.75	$ 36.25	$ 40.40
choice & prime	32.65	33.25	36.95
utility & good	24.00	24.75	29.65
Heifers, ch & pr	31.65	32.15	35.75
utility & good	22.75	23.50	28.75
Cows, util & com'l	17.15	18.25	25.65
canner & cutter	14.25	14.75	20.25
Bulls	19.40	20.25	26.50
Calves, veal	30.00	29.50	33.50
Stocker & fdr steers	24.50	26.25	32.75
Milk cows, gd & ch	217.50	200.00	275.00
Hogs, bar & gilt, top	19.90	20.50	21.85
average	19.70	20.12	21.57
Lambs, top	26.25	29.00	32.00
average	24.90	26.90	31.00
Wool, bot ½ comb	.63½	.64½	.71½
Butter, 92 score	.77	.72½	.69
Cheese, single daisies	.46¾	.46¾	.42¼
Eggs, standards	.63	.50	.68
Hens, No. 1 live	.24¼	.25	.28
Wheat, No. 2 hard wtr	2.37½	2.34¾	2.43½
Corn, No. 2 yellow	1.74¾	1.82	1.82¾
Oats, No. 1 hvy white	.93¾	.94¼	.97
Soybeans, No. 2 yellow	2.66½	2.10½	2.84¾
Hay, alfalfa, 5/8 L	38.00	38.00	36.75
Cottonseed meal, 41%	95.50	95.00*	82.85
Tankage, 60%	112.00	122.50	120.00

*At Kansas City.

Egg prices probably will start a seasonal drop before November is over, but less drastic than last year. More hens will be culled out this fall.

Chicken prices may be steady to weak in the near future, then work upward until late winter.

Turkey prices probably will remain somewhat below last season, but may strengthen a little as holiday demand develops and finished birds become available.

Feed grain prices are due to advance a little by early winter. However, they are not likely to show as much strength as in 1951 or 1950 and may average lower for the crop year than in the past season. Total harvest appears to be about 118 million tons compared with 114 million tons in 1951. The corn crop is especially large in the area which furnishes most of the corn entering commerce. Carryover was less than in 1951, but the reduction was largely in stocks under the support program. With less livestock to feed this season, the total supply per animal of feed grain not under government control promises to be appreciably larger than in the past season.

Buy in the next few weeks any corn or other feed grain you will need during the winter. Corn is not as high relative to oats as a month or two ago, although oats still appear to be the slightly cheaper grain.

"Shoulder gall didn't keep my horse from work"

says Martin Paul, Pecwee Valley, Ky.

"I thought my horse would be laid up for a week until I tried Absorbine. It helped give relief in a few hours. I'd recommend it to any farmer."

There's nothing like Absorbine for lameness due to strains, puffs, bruises. Not a "cure-all," but a real help in relieving fresh bog spavin and similar congestive troubles.

A stand-by over 50 years, used by many veterinarians. Will not blister, remove hair. $2.50 a long-lasting bottle at all druggists.

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KIDNEYS MUST REMOVE EXCESS WASTE

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.

Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

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Non-freezing GRAVITY TYPE—no heating unit required—Easily attached to barrel or tank—Also PRESSURE TYPE for indoor or outdoor areas. Price, $5.95 delivered. See your dealer or write for folder—Satisfaction or money back.

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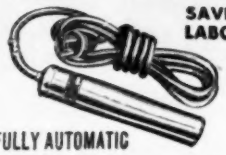
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WHY DO SO MANY PIGS DIE?
WHY DO SO MANY NORMAL COWS FAIL TO "SETTLE"?
Rex Wheat Germ Oil has been answering these questions for 20 years. Write for folder "Hormones in Rex Wheat Germ Oil."
REX WHEAT GERM OIL MONTICELLO, ILLINOIS

More Meat from Saved Soil

(from page 7) to Feb. 15th, got 4# of corn-and-cob meal, ½# oilmeal, 3# of hay and 10# of silage each. From Feb. 15th to May 5th, 80 days, the meal was raised to 6# a head and the silage to 13#. On May 5th the 23 steers were put on 11 acres of permanent pasture, with no grain feed. On July 21st they got 7# of corn-and-cob meal apiece. On Aug. 14th it was raised to 14# of meal. On Aug. 26th they were brought into dry lot and fed 15# of meal, 5# of hay and ½# of oilmeal apiece. With corn-and-cob meal at 1.4c a lb., oilmeal @ 3.8c per lb., hay @ 1 c a lb., and grass silage @ .45c per lb. that added up to $39.50 per animal. Plus $18.00 for pasture, that totaled $57.50 per head as the feed cost from Nov. 1st to Sept. 2nd the next year. Now add $1.80 for taxes, and $50.06 as the cost of the calf which Logan Thompson sold to himself and you have a grand total cost of $120.36 to produce an 810-lb. finished steer, which @ $29.75 brought the feeder, and the breeder, $240.98.

That's it, folks. Now you take it from here and decide in your long-time planning whether to buy feeder calves or raise them yourself on your own farm.

Back of each of these farms stretches many another great lesson in soil conservation, crop rotation, silage keeping, hay making, labor-saving devices, housing, marketing, and whether the city housewife is going to order stewmeat or porterhouse.

When a steer quits chewing its cud and ruminating properly, it is off feed, explained Dr. W. M. BEESON of Indiana. A whole new field of meat production has been discovered by feeding 3½ lbs. a day of material like the Purdue and Iowa Supplements, which sustain the countless hosts of bacteria in the paunch of cattle and sheep. These microscopic workers in turn make their own meat building blocks from the silage, hay, ground corncobs or straw that you feed your ruminants. Putting his supplement on corn silage he had gotten up to 2,000 lbs. of beef per acre, or $5.50 a bushel for his corn. (Better than sealing it at $1.60!)

Prof. EVAN FERRIN put in some strong words for hogs and sheep on your farm. Both Mr. Davis and Mr. Thompson proved by experience how right the alert Minnesota animal husbandman was. WM. MORRIS pointed out in a demonstration by the carload that feeder cattle are 30% cheaper this fall than last, while the price paid for finished cattle is only 15% under last year's market price. The gamble may have been squeezed out—if you buy right.

Oh, I'll tell you: If you want to get the details and all the figures on all these pertinent speeches and revealing demonstrations, write to Mr. CLIFF CAIRNS, Wilson & Co., Albert Lea, Minn. He'll send them as long as they last, I'm sure.

'Bye, now. I'm off to the National Dairy Cattle Congress down at Waterloo. Your friend, —SAMUEL R. GUARD.

W. Va. Started Calf Sales.—Your article on the feeder calf movement is out of date. We held some small community sales prior to 1931. Our sales on a State demonstrational basis began in the fall of 1931, the first one at Jackson's Mill. Going ever since. The Missouri people had considerable contact with our extension group prior to starting similar sales out there. West Virginia was the first state to hold such sales.—E. A. LIVESAY, West Virginia University.

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Costly Man-Hours
with a BELT
HARVEST-HANDLER

Both Models Available with Dolly
Save time! Eliminate back-breaking work! Cut hired-labor costs! Gain more free time! Do all this with your Belt Harvest-Handler — the original, lightweight, one-man portable elevator. It meets your many general handling needs — winter, spring, summer, fall.
Typical Handling Capacities — Model B, 200 bushels; Model C, 380 bushels of ear corn per hour at 35° angle. *Lengths* — 16 and 20 ft. *Weights* — less than 100 lbs. with power units removed.
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THE BELT CORPORATION
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Successful Home Method That Anyone Can Use on Any Reducible Rupture, Large or Small
Costs Nothing To Find Out
Thousands of ruptured men will rejoice to know that the full plan so successfully used by Capt. W. A. Collings for his double rupture from which he suffered so long will be sent free to all who write for it.
Merely send your name and address to Capt. W. A. Collings, Inc., Box 715 K, Watertown, N. Y. It won't cost you a cent to find out and you may bless the day you sent for it. Hundreds have already reported satisfactory results following this free offer. Send right away—NOW—before you put down this paper.

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FARM HANDBOOK
Prepared by Iowa State College agricultural authorities, this new, second edition, 240 page book deals with all of farming from Animal Husbandry to Weather. 20 sections, covered by more than 75 staff members. A goldmine of good farming information for $2.50, postpaid.
BOOKSHELF, Breeder's Gazette, Spencer, Ind.

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PORTABLE and STATIONARY FEED MILLS

Give You FASTER LIVESTOCK GAINS

Don't burn Your Corncobs! . . . Turn them into profitable Low-Cost Roughage with a BOWSHER MILL . . . perfect for grinding corncobs, ear corn, shucky corn and shelled corn, giving a granular product WITHOUT DUST.

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TRIPLE ACTION · CUTS CRUSHES · GRINDS

Cone shaped burrs, two sets of knives give extra capacity up to 220 bu. per hour.

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ADAPTABLE—mounts stationary, on truck or trailer
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BLOODLESS CASTRATOR
No danger of infection.

Minimize your losses at marketing time. BURDIZZO marked stock thrive better. Rapid, sure, humane.

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Sole Makers
La "Burdizzo" Co.
Corso Sebastopoli 187—TURIN (Italy)

WRITE for our folder listing new agricultural books.
BOOKSHELF, Breeder's Gazette, Spencer, Ind.

He Wins Tractor Rodeo

I M 17 years old and a senior in Agriculture at Westerville High School. My 14-year old brother, my father and I own a 103-acre farm and rent two neighboring farms. I joined a Tractor Maintenance Club which is county wide. We met every week at different tractor dealers. We studied the care and safe handling of our own tractor. We studied lubrication of the tractor; caring for the air cleaner; adjusting the carburetor, cooling system, spark plugs, and the ignition. Also the tires.

The county agent came out and checked our tractor on the farm. It had to pass the test of being in good care and adjustment. I got 1st place in the Franklin County tractor rodeo. Then when I went to the State Fair I was fortunate enough to win first there.

In a rodeo you may choose the make of tractor. I chose a Ford, because we have two of them and so that is what I am used to.

Each boy is timed from a starting point. He hitches onto a side-delivery rake which is in a make-believe shed (made of metal fence posts). He drives it out and thru an obstacle course (also made of fence posts). Then he has to back the rake into its original place. You have to drive it out and circle around and back it into its original stall.

Then you drive your tractor to a blower. You belt up and make the machinery run, and measure how far the belt is off center of the pulley.

All of these contests are timed. But accuracy is more important: they take off 5 points for every post that you touch.

In the tractor club and in the rodeo the main thing that is stressed is safety. It is hoped that it will make every farm man and boy more safety-minded. The first three winners received a plaque which was given by The Standard Oil Company.—DONALD FISHER, Franklin Co., Ohio.

So Sorry, Extend Sub.—Have you printed something that you don't want me to read? I have not received a copy since Feb. Plenty busy with two new grandsons but I do miss Sam Guard's Roundup. I had a lot of nice lambs this year—70 from 44 ewes. The 25 aged ewes had over 200%. Saved all but 4 or 5, and gave one of the triplets to a 4-H boy to raise. My fall-sister to your ram has twins and sheared 13 lbs., all before she was 14 months old. Our Shepherd's Club project of weighing lambs at 120 days, plus the wool clip, is paying off. All the ewes from one ram sheared 1 to 3½ lbs. more than their dams. —WALTER P. THOMPSON, Montadales, Washington C. H., O.

***Bluegrass* HEREFORD**

SHOW NOV. 12 9 A.M. **& SALE** NOV. 13 1 P.M.

In heated Arena at the

University of Kentucky, Lexington, Ky.

See Prof. Don Good of Manhattan, Kas., judge this great offering on November 12, awarding $8,000 in prizes. **Attend** the banquet at 6:30 P.M. that evening at the Lafayette Hotel, Lexington. Sit in and **buy**, beginning at 1 P.M. on November 13. Bulls, bred and open heifers from Kentucky's top herds. You'll not go wrong on these Whitefaces, whether it's a bull to head a purebred herd or to produce commercial cattle; females to build up or found a herd. If you want Herefords, you just can't afford to miss this sale at Lexington, Kentucky.

ADDRESS REQUESTS FOR RESERVATIONS AND CATALOGS TO

KENTUCKY HEREFORD ASSN.

437 South 2nd St., Louisville 2, Kentucky

Purebred Progress

548,418 new pedigrees recorded by one herd book in one year is the astounding new achievement reported by the American Hereford Ass'n, 300 W. 11th St., Kansas City, Mo. This means that 43,357 more purebred whiteface calves were registered in the fiscal year just closed than were recorded the year before. Applications were received at the rate of 2,180 a day. The Association now has 21,292 members, being exceeded only by the Holstein breeders. The first Hereford pedigree was recorded in 1879, when James H. Sanders, then working on the "National Livestock Journal," was thinking of starting the "Breeder's Gazette." It took a full 30 years of hard work, mostly on the part of the late R. J. Kinzer to issue as many registration certificates altogether as Sec'y Jack Turner has signed during the past fiscal year. All breeds and all livestock improvers congratulate the Hereford breed of beef cattle on this new record of purebred achievement.

Hereford Sec'y Turner

Wyoming Hereford Ranch's annual auction totted up $317,325 for 77 head. The 37 bulls averaged $5,276, with a top of $35,000 paid by Suncrest Ranch for WHR Elite Triumph 60th. The 40 females averaged $2,928 with a top of $8,000.

THE AYRSHIRE Breeders' Ass'n has a new secretary and a new headquarters office. The executive is Chester C. Putney, who succeeded Clifford T. Conklin on Aug. 15. Their new building was dedicated on Sept. 27.

Meantime in his 27 years with the Ayrshire folks, the progressive Mr. Conklin introduced the Herd Test Plan, which emphasized the production of the whole herd rather than one spectacular cow. In fact, Conklin's herd testing raised the average production of Ayrshires on 305-day test from 8,327 lbs. milk containing 335 lbs. fat to 9,544 lbs. milk with 389 lbs. fat. He is the man who walked two Ayrshire cows, Tomboy & Alice, from Brandon, Vt., to St. Louis, Mo., where the National Dairy Show was then held. He was a pioneer for use of calfhood vaccination to control Bang's disease. His regime raised Ayrshire registrations from 7,533 a year to 25,463; membership from 2,060 to 8,740.

At the Tennessee Walking Horse Celebration they crowned Talk-of-the-Town grand champion of them all for the second time.

"Top Today-Herefords"

Over 81% of the time* livestock market pages report this record!

* According to a continuing survey of prices paid day by day in the nation's leading stockyards.

WHENEVER you pass a stockyards, stop and look at the rows of pens which contain your future steaks and roasts on the hoof. You will soon realize the vast majority of these pens are filled with white-faced, red-bodied Herefords!

Price which packer buyers will pay and the ability to fatten quickly at minimum expense and labor determine the popularity of a breed of cattle which commercial cattlemen produce. Over 81% of the time the day's top price is paid for Herefords. This accounts for the predominance of Herefords on the range, in feedlots, and on the market.

Over a century of intensive breeding has made Herefords the beef animal with the ability to pack on pounds at the most profit!

"Grandfather tried out all beef breeds . . .

and the Herefords always seemed to us to gain rapidly and put the gain on in the most economical way. This convinced us Herefords were the breed for us to raise."

EMIL REZAC, Tabor, S. D.

If you have land and grass, you have a future with Herefords! Write today for illustrated FREE booklet "Your Future with Herefords."

AMERICAN HEREFORD ASSOCIATION
Dept. F 300 West 11th St., Kansas City 6, Mo.

Herefords

THE BEEF BREED SUPREME

1. They thrive in any climate 2. High calf crop percentage 3. They are born to "rustle" 4. More weight at weaning 5. Top economy in use of feed 6. Greater profit per head 7. Packers prefer Herefords

For PROFIT...PLEASURE...PRODUCTIVITY

Edwin Leader, 1951 Int'l champion bull, sold by McComb Bros., Defiance, Iowa, for $10,000 to Crowncrest Farms, Lexington, Ky.

YOU'LL want Shorthorns and Polled Shorthorns, world's oldest and most useful beef breed and America's most promising breed today. The future is unlimited for the reds, whites and roans—the breed that is built for guaranteed year-in, year-out beef profits. Our market cattle are outselling all other breeds today, and demand for Shorthorn bulls to put efficiency in herds of other breeds is almost overwhelming. Yes, the future is unlimited for breeders of SHORTHORNS and POLLED SHORTHORNS.

Here is the opportunity of a lifetime—the greatest array of quality, bred-in-the-purple top show and herd prospects that have ever been offered at these great annual sales.

International POLLED SHORTHORN SALE
40 Head Selling Dec. 1

International SHORTHORN SALE
100 Head Selling Dec. 3

at the INTERNATIONAL LIVE STOCK EXPOSITION
International Sale Pavilion, Union Stock Yards, Chicago, Ill.

Catalogs Sent Upon Request

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GALLOWAYS

For centuries they're had what others seek: Ideal beef type, form, quality, and carcasses unexcelled. Great ruggedness and rustling ability—and always hate been smooth polled. They transmit their traits consistently to offspring.

For details, write AMERICAN GALLOWAY BREEDERS' ASS'N, East Lansing, Michigan. Charles C. Wells, Sec'y.

Oakwood POLLED SHORTHORNS

You can't go wrong if they're from Oakwood. Write or visit.

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Thieman's POLLED SHORTHORNS

"The Best of the Breed"

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Coming . . . the 1952

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LIVE STOCK EXPOSITION AND HORSE SHOW

NOVEMBER 29 TO DECEMBER 6, 1952

Union Stock Yards—Chicago

$100,000 in Prizes

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Premium Lists are now available and will be mailed on application. Entries close November 1. For Carlots, November 22.

- ★ Spectacular Horse Shows
- ★ Carlots Fet Cattle, Sheep, Swine
- ★ Nat'l Sheep Shearing Contests
- ★ Huge Meats and Wool Show
- ★ Int'l Grain and Hay Show
- ★ National 4-H Club Congress

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HAD a chance to get away from political broadcasts long enough to learn all you can about new developments in farming? We believe you will find some worthwhile ideas for increased production and profits in the free booklets listed below. Just ask for them on postcards sent to the addresses given. Please mention BREEDER'S GAZETTE when you write:

Dept. F, American Hereford Ass'n, 300 W. 11th St., Kansas City 6, Mo. **"Future With Herefords"** (Biggest breed gives you reasons for going into the business of improving beef cattle).

John Deere, Dept. BG, Moline, Ill. **"Model 50 and 60"** (improvements you want to know about in two new tractors).

R. W. Vachon, McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45, Cal. **"How to Make Money from Farm Woodlands"** (do you know what your trees are worth?).

Carl Waggoner, Carson Bros., Inc., 2165 N. Sherman Drive, Indianapolis, Ind. **"Soil Surgeon"** (here's an interesting new tool for providing a first-class seedbed).

Howard T. Walden, Corn Industries Research Foundation, 3 East 45th St., N.W., Washington 4, D.C. **"Corn in Industry"** (want to know what happens to the corn that isn't fed? 60 beautifully illustrated pages on corn in industry, from penicillin to bomb casings).

Rototiller, Inc., Troy, N.Y. **"Chart of Green Manures"** (gives you on one sheet, all the important points you want to compare on the crops usually turned under—when to sow, amount of seed needed, etc.).

Pillsbury Mills, Inc., 824 B.G. Pillsbury Bldg., Minneapolis 2, Minn. **"Henhouse Helps"** (management tips and a check list to help you prepare for a profitable laying season).

University of Illinois, Urbana, Ill. **"Loose Housing for the Farm Dairy"** (suggested plans for barns and sheds, exercise yards, milking parlors and milk rooms).

Sunflower Industries, 561 S. Kansas Ave., Olathe, Kans. **"Roto-Saw"** (describes a time and work-saving tractor attachment for land clearing and tree felling).

A. L. Ward, Educational Service, Natl. Cottonseed Products Assn., 618 Wilson Bldg., Dallas 1, Tex. **"1952 Feeding Practices"** (44 pages of ration suggestions).

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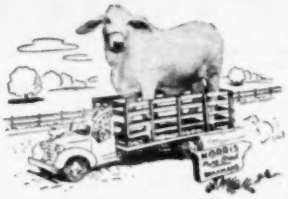

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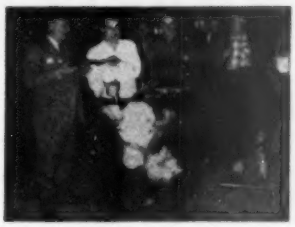

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Dear Ralph Poulton: In your Swine Disease Research Foundation you are working on an angle that has really got merit. I am located in the best Illinois hog raising area and if disease control is not made effective, we will lose a lot of income because farmers are giving up hog-raising. I own and operate a farm that is set up to raise hogs, but last year we lost over $3,500.00, mainly from rhinitis and erysipelas. This year we are going alright but we need some place to get an education on prevention and not have to pay the hard way to learn. I favor your project and will be willing to contribute my share.—O. O. GERBITZ, Normandy, Ill.

Penny a Pig

THE IDEA OF A FARMER-FINANCED AND FARMER-CONTROLLED SWINE DISEASE Research Foundation is gaining ground every day, and with every letter like this one from an Illinois farmer. Last month I presented the plan before the annual meeting of the U. S. Livestock Sanitary Ass'n. RALPH had it up with the American Yorkshire Club. It was decided to call a conference of hogmen from all over the country—on Sunday afternoon at the Chicago International. Hope you can come. The $64 question is how to collect a penny a pig from those that go to market. You be thinking about it, will you? Write it out and mail to RALPH POULTON, Breeder's Gazette, Spencer, Ind.

Grassland Gold

DID ANY OF THE FOLKS FROM THE 6TH INTERNATIONAL GRASSLAND CONGRESS happen to come by your place? Tours of the Northeast, Midwest, South and West were made after 95 delegates from 48 countries deliberated in the presence of 1200 interested grasslanders. Just thought some of them might have dropped in on you. You can make good money on your own meadows and pastures by increasing the feeding quality of your forage. You can save good money by providing green pasture for your pigs. Do not let your pastures become exercise lots. Take more than bulky roughage from your meadows —take nitrogen and fat too. . . . These were the notes that floated down to us from the great grass harp. Incidentally, this whole theme of "Meadows and Pastures" kept reminding me that back in 1912 we published a 420-page book under that very title, by JOSEPH E. WING. Out of print now, it reads like a report of the Penn State congress. JOE WING was 40 years ahead of his time.

Editor's Nubbins

MOST HOPEFUL PICTURE FROM KOREA I'VE SEEN WAS THE ONE OF "GAY Command," purebred Angus bull, presented by the Neb. Breeders' Ass'n to the Suwon 4-H Club. . . . DON RADDA, Washington, Ia., won the tall corn contest this year with a stalk only 22 ft., 8½ inches high. Why, 6 years ago he had a stalk 31 ft. tall. DON is the same man who told you 2 years ago here how he grew 2,096 bushels of corn on 10 acres of old cattle and hog pasture. . . . Wisconsin has learned how to save a lot of money on Bang's testing by screening herds with a ring test first. Only 15% of the herds need the blood test. . . . United Duroc Record Ass'n institutes the idea of whole litter recording, figuring that when you have the sire and dam right there you save clerical help and reduce the cost of making out the pedigree. So members can record at least 2 pigs from one litter less than 4 months old @ 85c a pedigree instead of $1.50. And if you enter Duroc sows in Production Registry you can feed synthetic sow's milk as a supplement, but not exclusively. . . . Top selling buck at the Texas Angora Goat Raisers' sale brought $220. Buyer JACK RICHARDSON of Uvalde pointed out that in election years and drought, goats are the best bet! . . . I saw a litter of 18 pigs on exhibit at Waterloo by LARRY MEYER of Minnesota that weighed 4,992 lbs. in 180 days. A Land-O'-Lakes man came by and was telling me about an old sow that had 3 litters last year! . . . At the Ky. State Fair CHARLIE JARBOE showed me a Montadale ewe with 4 lambs, 2 of them almost as big as their mother. She had twins last Jan. 7th. She lambed again, twins, on June 22nd. If she has lambs once more this year, CHARLIE, I want you to send me a wire. Collect. . . . I may be wrong, but I still think the best farmer, like the best general, is the one that gets there firstest with the mostest. . . . This battered old world is going to need everything we can produce for a long time to come. Half the children of the globe need milk to live and hardly know the taste of meat. . . . That your children do have meat and well can eat, let me join with you, every one, in

A joyful Thanksgiving,

Samuel R. Guard *Editor*

Two GUERNSEY PRODUCERS Report On LIQUID GOLD!

"With GUERNSEYS, You Can Sure Make A Living!" says ASHLE SKAAR, of Hayward, Minn.

According to Ashle Skaar, the income received from the registered GUERNSEY cattle on his Green Needles Farm is proof of what the breed can do for its owners. . . .

Skaar bought the farm from his Dad on Jan. 1, 1948. His GUERNSEY income since that time has enabled him to pay for a new house and double garage—a new cement stone silo, new water pressure system, new addition to the barn for calves. He has also bought a new car, a new tractor with cultivator—a new plow, disk, drag, field cultivator, tractor mower, hammer mill, wagon, manure spreader, tractor planter, and a half interest in a corn picker.

The average number of Registered GUERNSEY cows for the four-year period has run about 16—with herd average 485 pounds of fat.

Green Needles Farm has had little trouble with replacements. The foundation cow was born in 1925, and 3 of her daughters are still in the herd. These 3 have had 30 calves—and all 3 are now again in calf. Before her death last year, the old brood cow was declared Minnesota's meritorious brood cow at the State meeting.

"It's been a combination of GUERNSEY calves living—GUERNSEY cows thriving and milking—and of course receiving quite a little from the sale of GUERNSEY bulls and surplus stock," says Skaar.

$159,512 GUERNSEY Income In Just Ten Years for ELMWOOD FARM Dubuque, Iowa

"My income is entirely from GUERNSEY cattle—and that's all right with me," says Arnold M. Pancratz, owner of Elmwood Farm. In addition to $104,586 in milk income from 1942 through 1951, sales of surplus bulls and females through the same period amounted to $54,926. *Total income: $159,512!*

Pancratz has been breeding pure-bred GUERNSEY cattle for 35 years. At 14, in 4-H, he started with one pure-bred heifer. Five years later he purchased a part interest in his father's herd—working on a share basis until he could buy the remainder.

Elmwood Farm consists of 220 acres, with 90 under cultivation and 30 in good blue grass pasture. During the past ten years, Pancratz has kept between 70 and 80 head of pure-bred GUERNSEY cattle of all ages, with about 30 or 40 cows. His aim has been to breed cattle that would produce profitably, year after year, under ordinary farm conditions.

The entire Elmwood Farm herd is on twice a day milking—and has always been on DHIA and HIR test.

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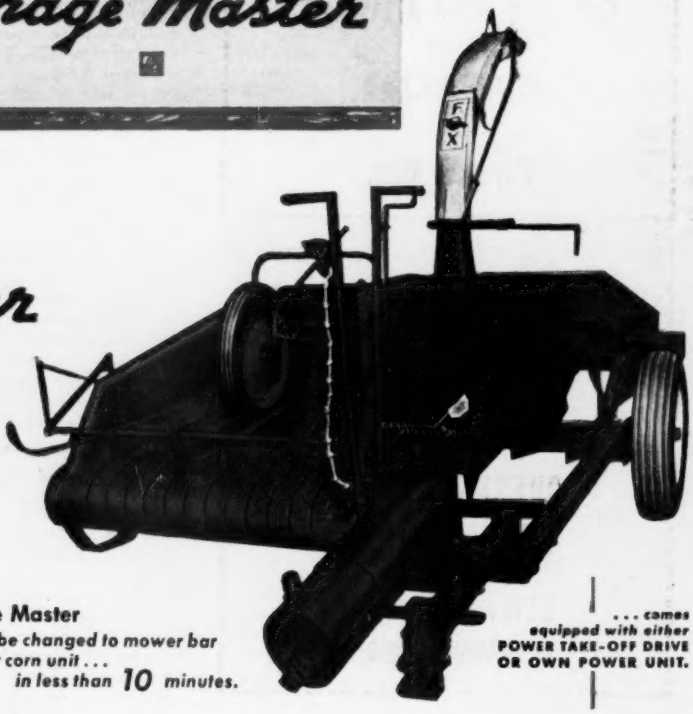

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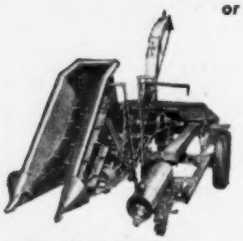
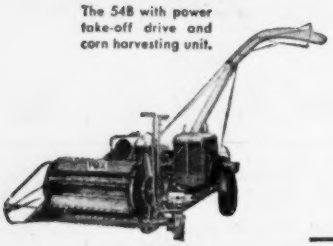
. . . can be changed to mower bar or corn unit . . . in less than 10 minutes.

. . . comes equipped with either **POWER TAKE-OFF DRIVE OR OWN POWER UNIT.**



The 54B with power take-off drive and corn harvesting unit.



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